

FIG. 1 is a schematic diagram of a network node and an end station in a network.

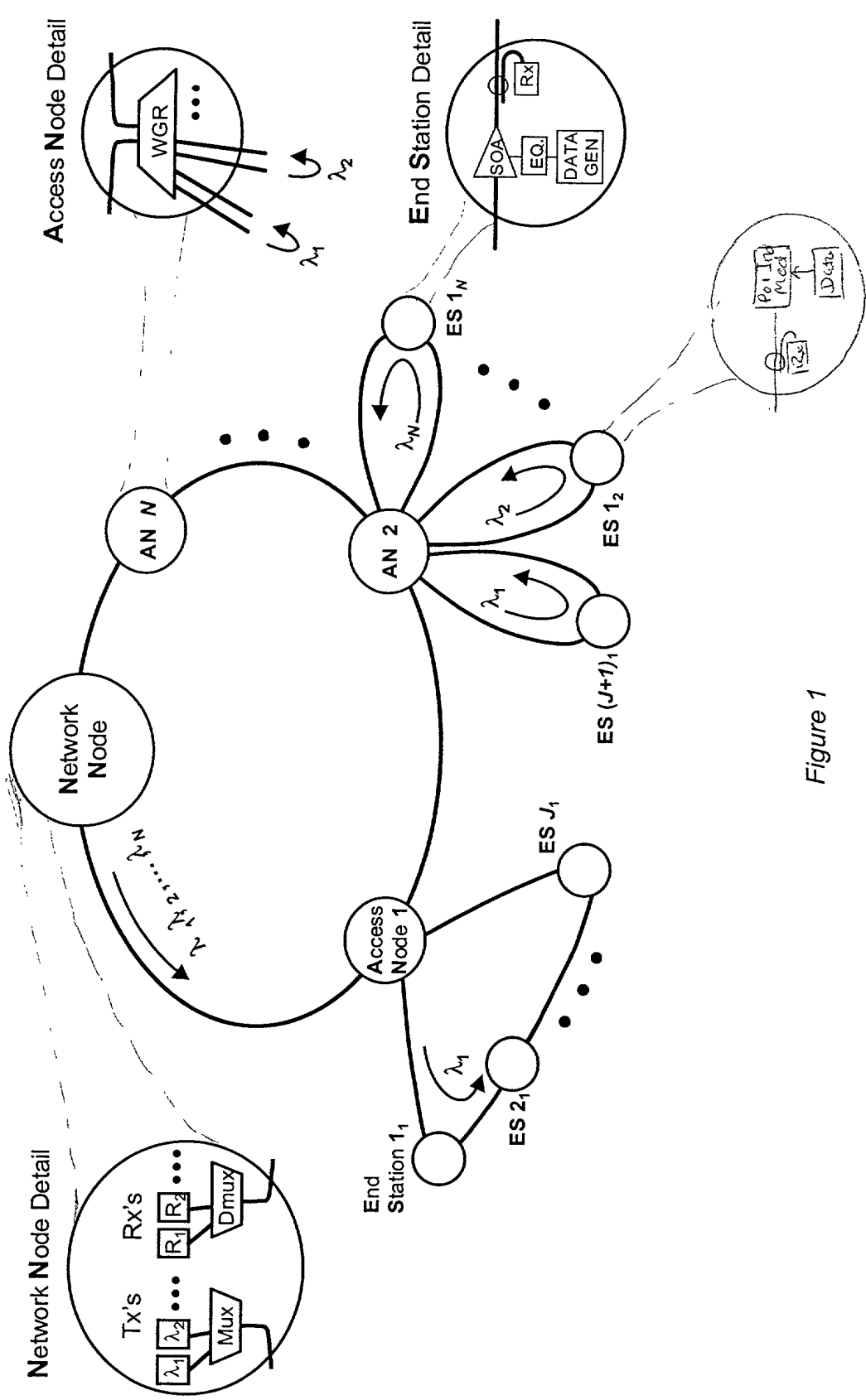


Figure 1

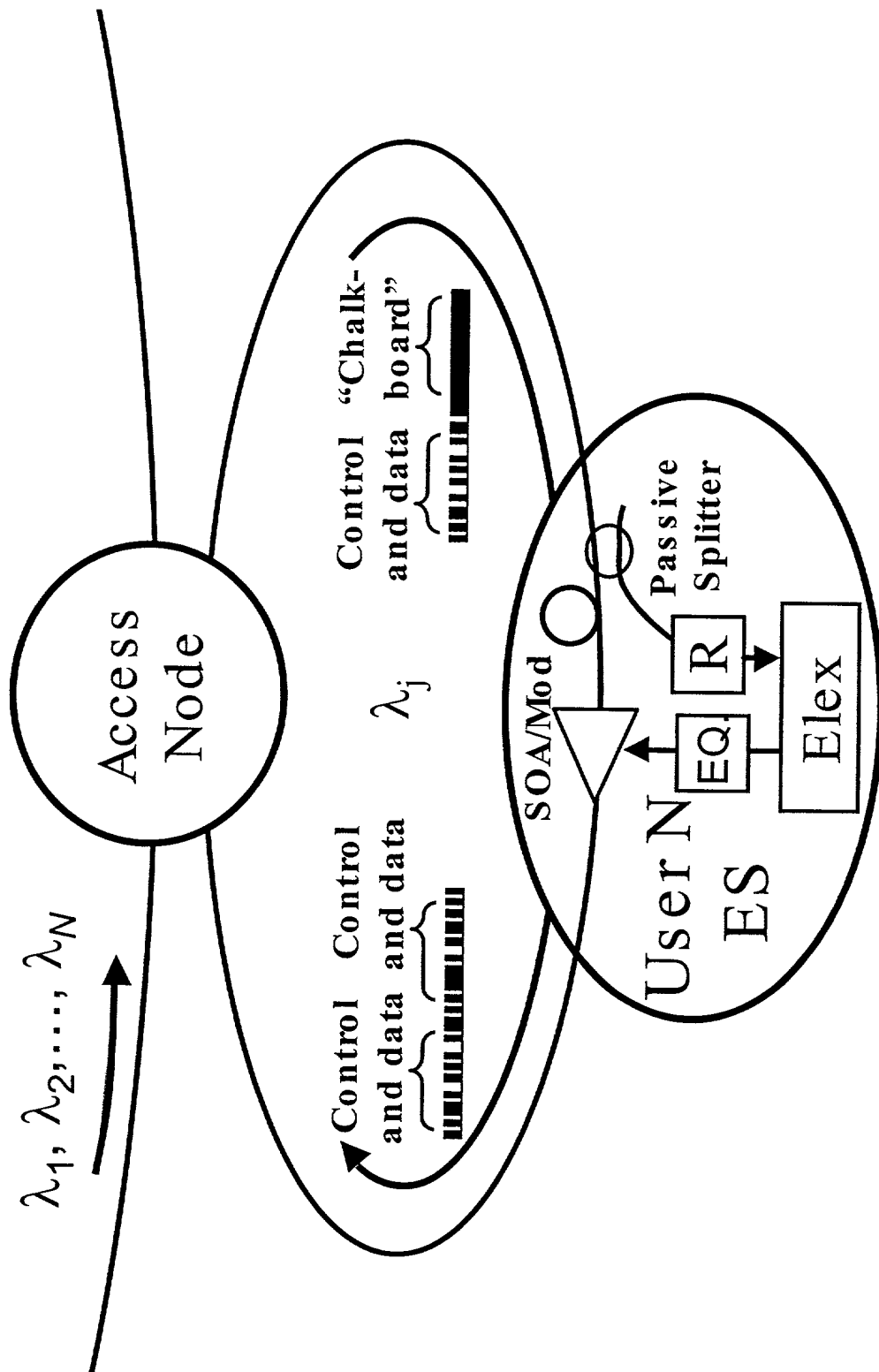


Figure 2

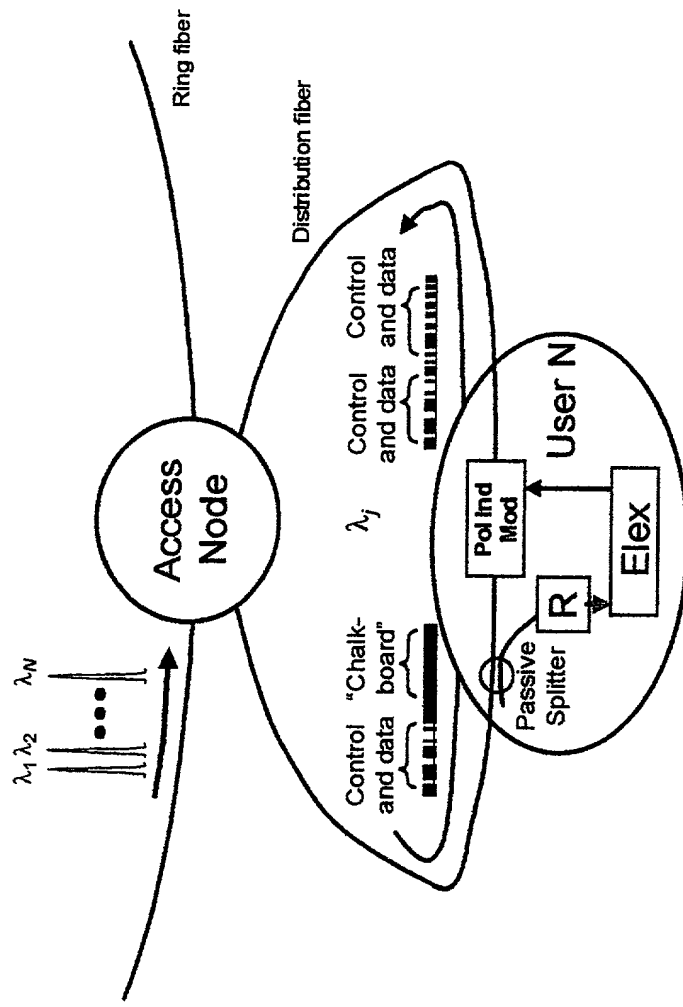


Fig 2b

FIG. 3

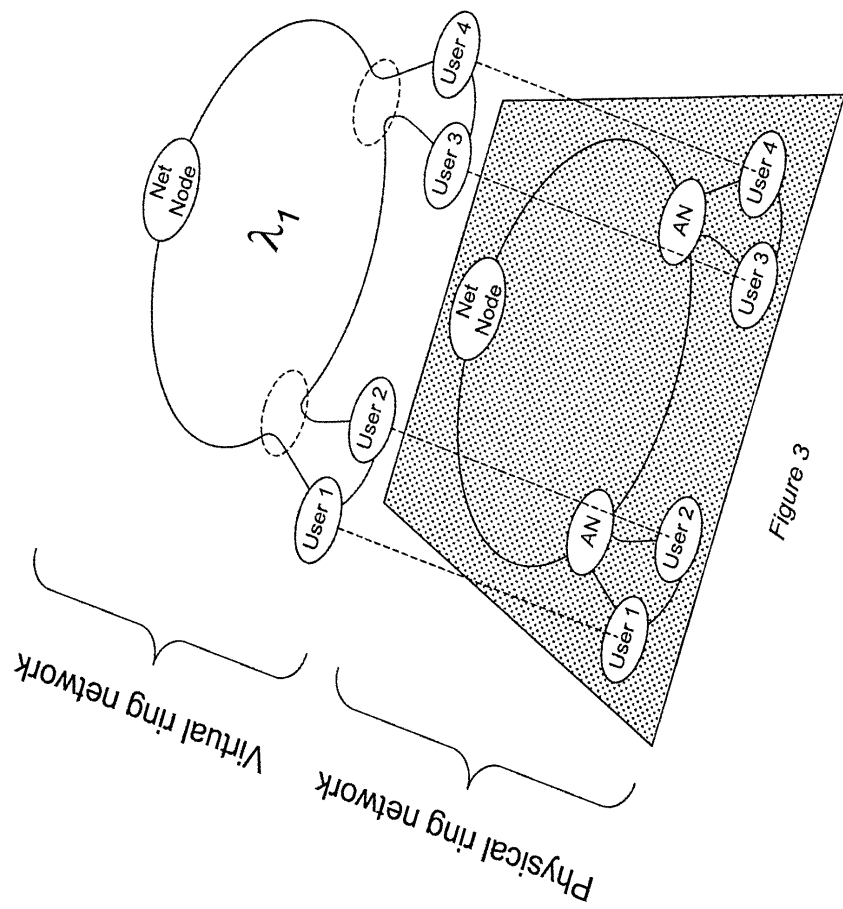


Figure 3

FIG. 4 is a schematic diagram of a network architecture showing a physical ring network and virtual ring networks.

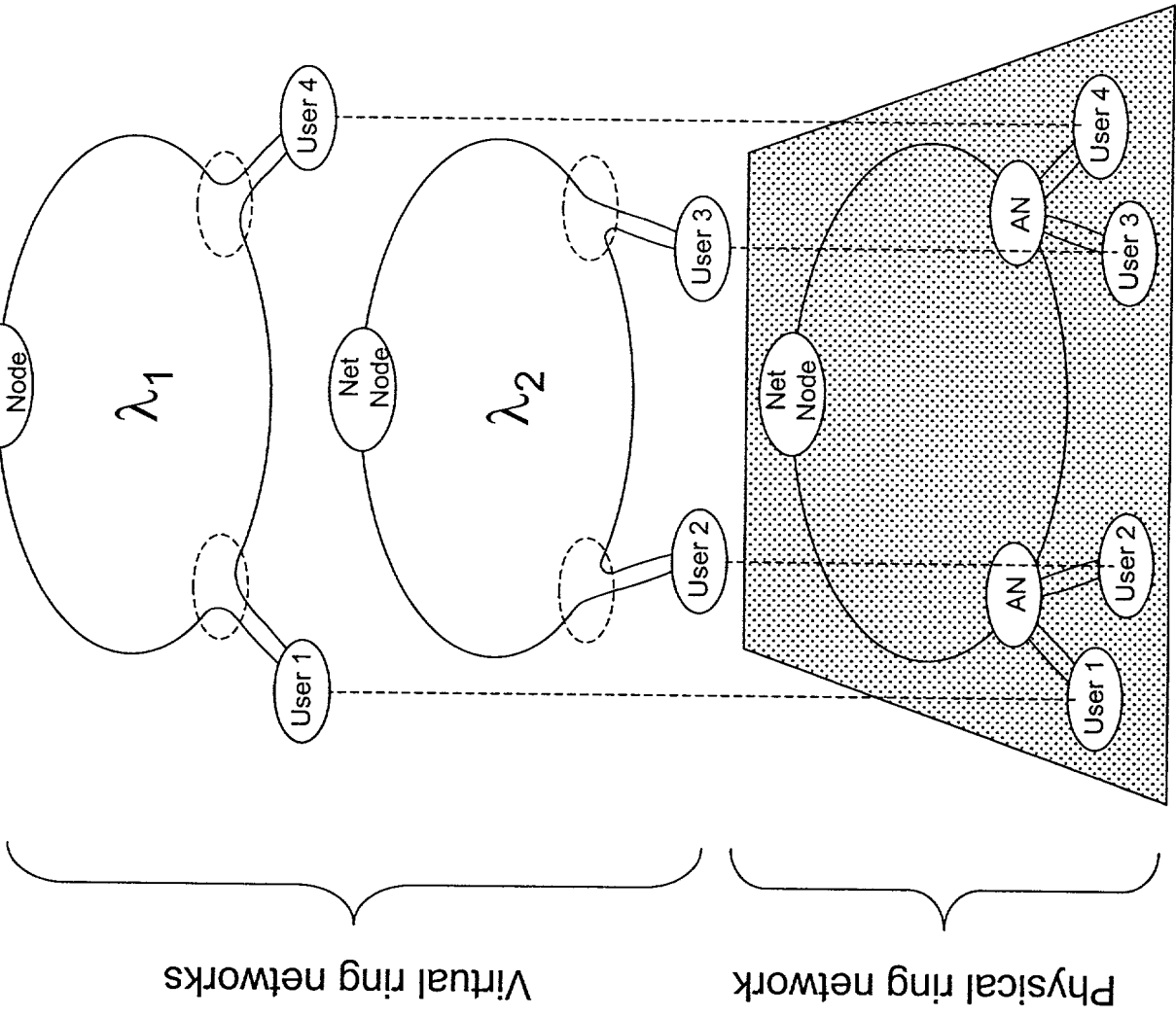


Figure 4

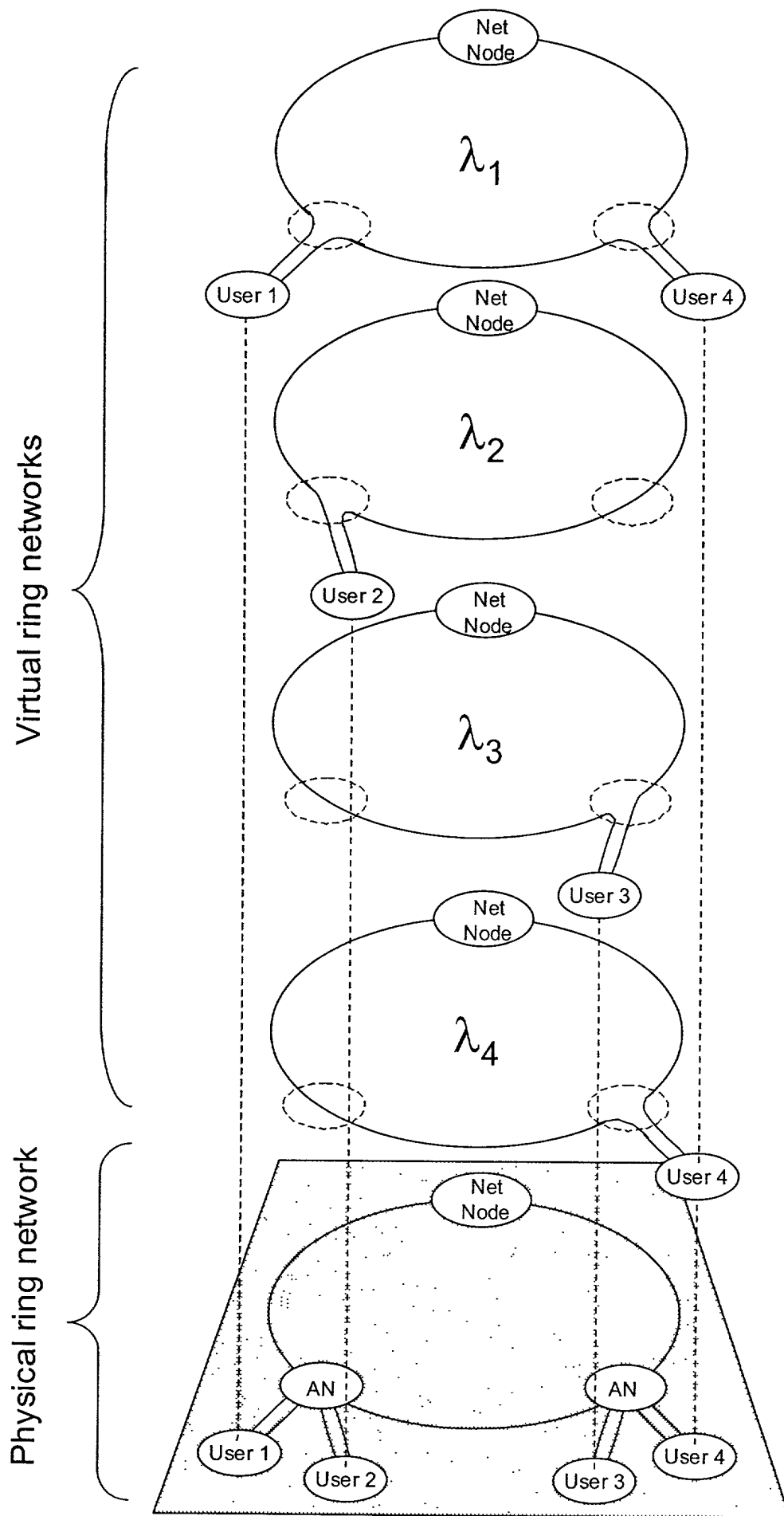
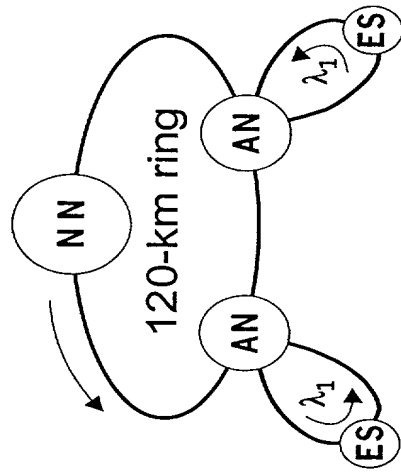


Figure 5

The first step is to define the system parameters. The system is a 120-km ring with two ANs and one NN. The ANs are connected to the NN via a 120-km ring. The ANs are also connected to the ES via a 120-km ring. The ES is connected to the ANs via a 120-km ring. The system is a 120-km ring with two ANs and one NN. The ANs are connected to the NN via a 120-km ring. The ANs are also connected to the ES via a 120-km ring. The ES is connected to the ANs via a 120-km ring.



(a)

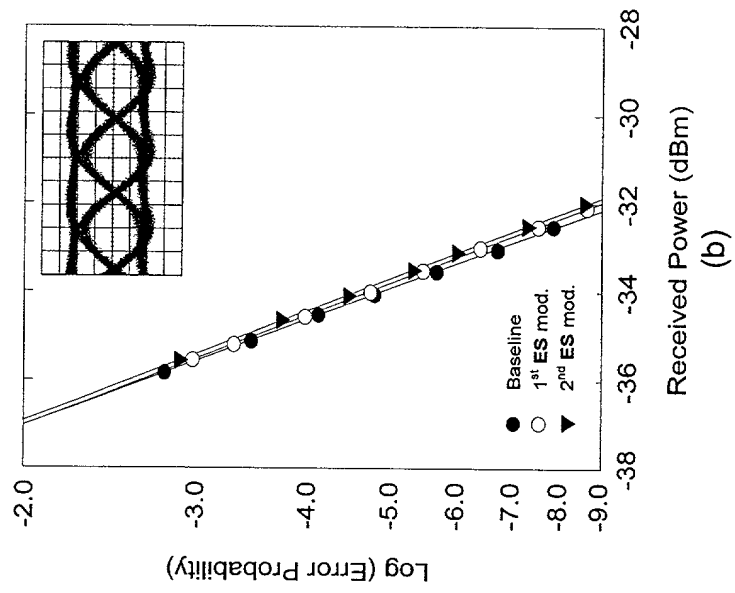


Figure 6

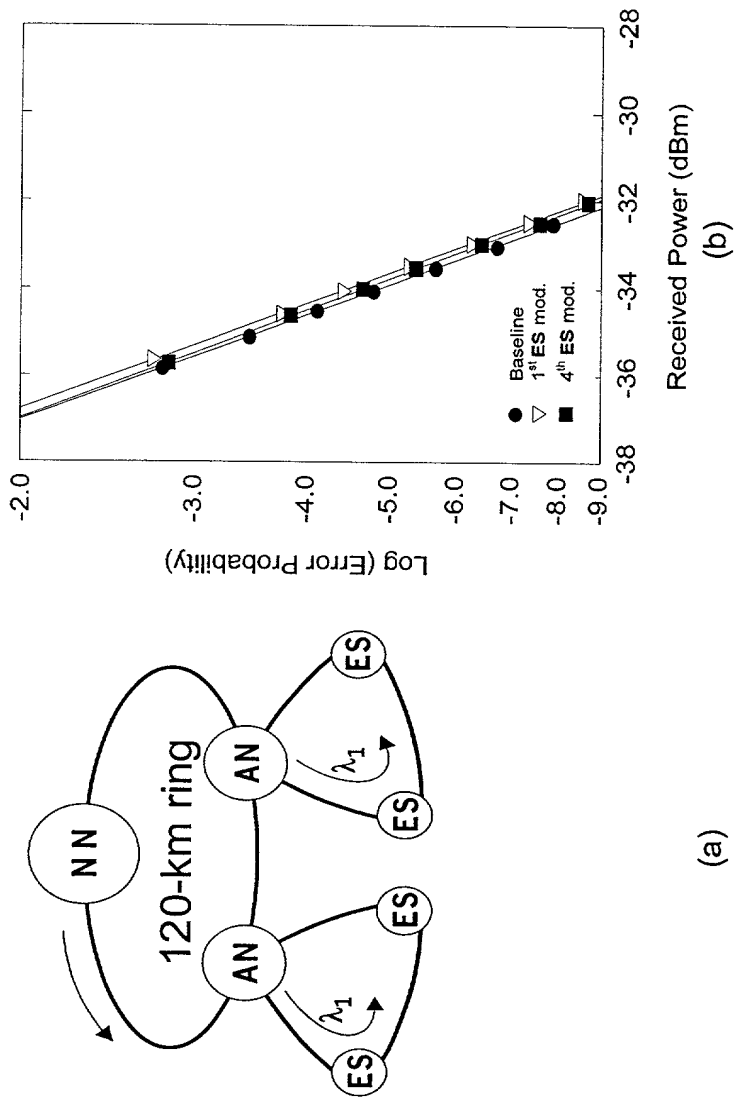


Figure 7

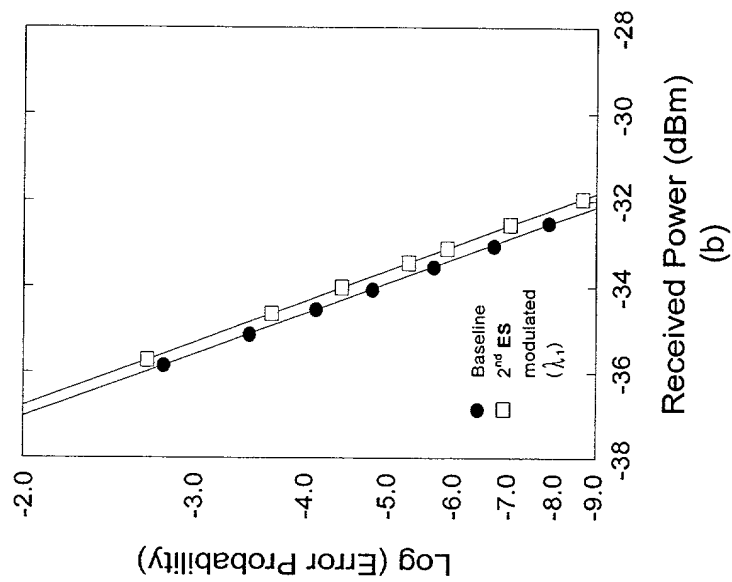
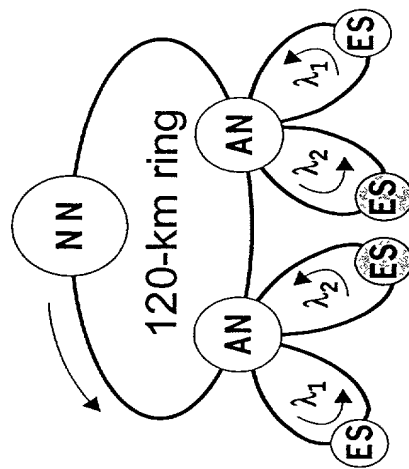


Figure 8

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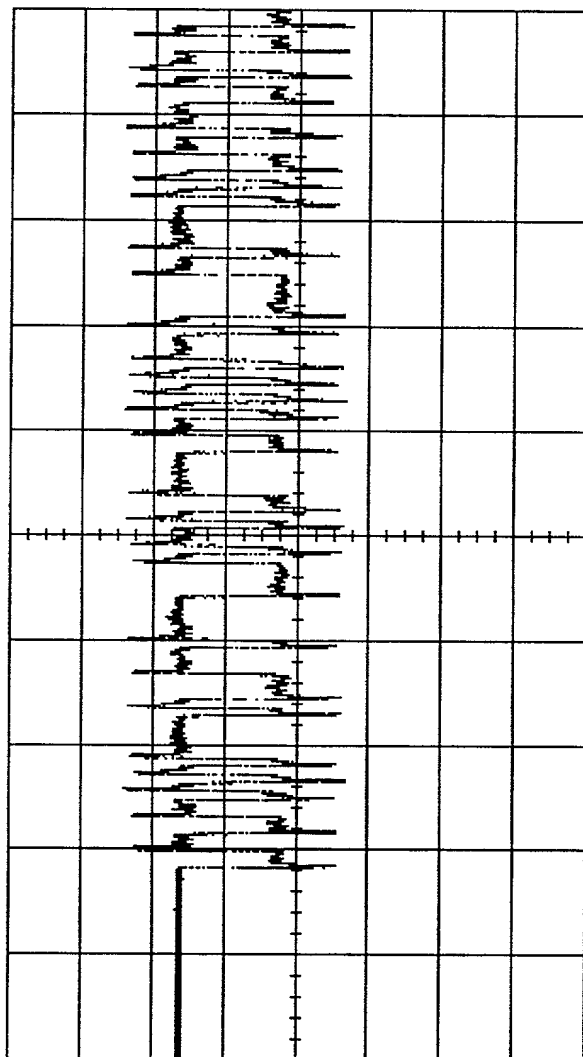


Figure 9

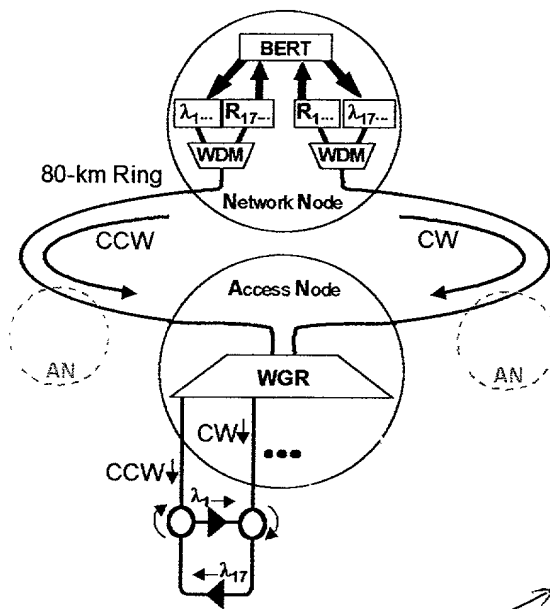


Figure 12a

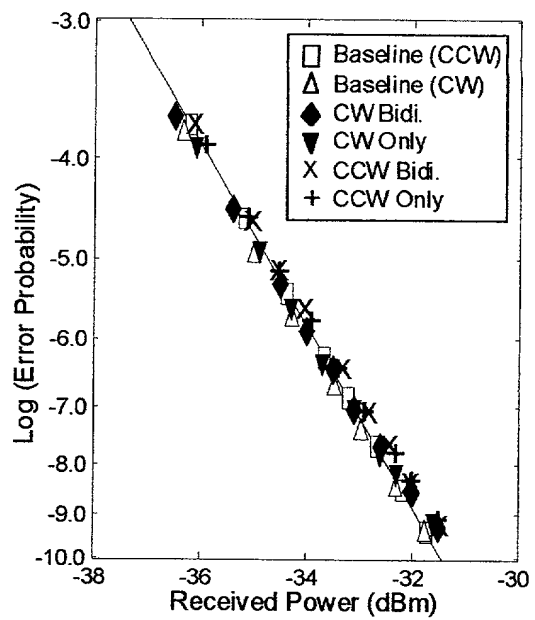


Figure 12b

Bi-directional Single-Fiber Ring

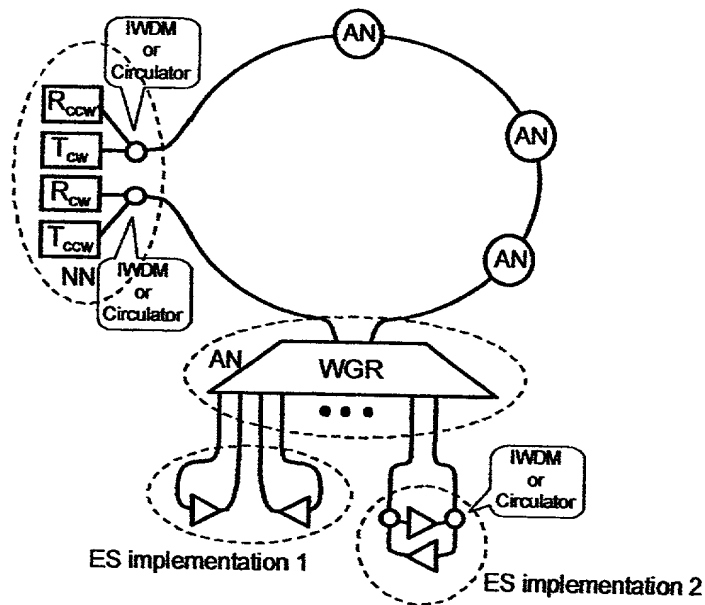


Fig 12c